

1 problems that have resulted from this new and
2 emerging area of counterfeit drugs.

3 Our next steps are to look at what's
4 happened in Nevada and Florida and to see if those
5 changes can address the problem of counterfeit
6 drugs and how our model regulations can or should
7 be amended to incorporate what has occurred in
8 Florida and Nevada.

9 To achieve this, we have commissioned a
10 task force that will meet at the end of October,
11 and we are inviting in all stakeholders that may
12 have an interest in this area and continue our
13 cooperation with the FDA to review our model
14 regulations and to propose new regulations to the
15 states to address this new and emerging area of
16 counterfeit drugs.

17 We would hope that a similar approach
18 could be applied as worked with the PDMA and that
19 federal recognition of the state effort would
20 occur, but the actual changes in the standards and
21 guidelines would occur at the state level so that
22 future changes could be made more easily and less
23 cumbersome.

24 We believe this is the right way to go.
25 We believe the evidence that exists since 1988 to

1 support this is very important. We have a good
2 regulatory system in place that's fairly uniform
3 among the states. The impact on the wholesale
4 industry has been minimal, and the burden on
5 interstate commerce has been almost nil.

6 So, again, we'd like to employ the same
7 process for this problem, work cooperatively with
8 the FDA, the wholesale industry, and other
9 stakeholders to develop a public and private
10 partnership.

11 Thank you for the opportunity.

12 [Applause.]

13 MR. RICCARDI: Good morning, almost
14 afternoon. My name is Sal Riccardi. I am the
15 President of the Pharmaceutical Distributors
16 Association, also known as PDA, an association
17 representing interests of 6,000 small licensed
18 prescription drug wholesalers operating throughout
19 the United States.

20 I am also the President and co-owner of
21 Purity Wholesale Grocers. Our pharmaceutical
22 division, Supreme Distributors, has been
23 wholesaling prescription drugs for more than 20
24 years.

25 As an industry, PDA members service other

1 wholesalers, hospitals, retail pharmacies, doctors'
2 offices, clinics, emergency response units,
3 military and private dispensaries, and others who
4 are not adequately serviced by the large national
5 and/or regional distributors. All member
6 wholesalers operate under the same state and
7 federal laws as the large national and regional
8 wholesalers. Our presence in the marketplace helps
9 stabilize prices by creating competition.

10 I am here today to address the shared
11 objective of counterfeit drug detection and
12 prevention and to outline the public and private
13 sector actions regarding wholesale distribution of
14 prescription drugs that the PDA believes reasonably
15 and effectively would help achieve these objectives
16 without unreasonably burdening prescription drug
17 wholesalers and putting them out of their
18 businesses.

19 First, prescription drug wholesalers are
20 required to be licensed where they have facilities,
21 and if required, in the states into which they sell
22 prescription drugs. State licensure laws vary from
23 filling out a simple one-page form and tendering a
24 nominal fee to criminal background checks,
25 including fingerprints on individuals, physical

1 inspection of in-state facilities and operations
2 system for the common-sense requirements.

3 Lack of strong uniform requirements for
4 criminal background checks, training and
5 experience, insurance and other common-sense
6 requirements along with weak criminal penalties and
7 other enforcement promotes an environment for
8 criminals to enter into. PDA supports state
9 efforts to enhance wholesaler licensing
10 requirements and increases in state licensing fees
11 necessary to support those requirements, along with
12 stronger and swifter enforcement by state and
13 federal authorities.

14 Florida and California are two examples of
15 states that have recently tightened licensing
16 requirements. PDA agrees with strengthening
17 licensing schemes, but other requirements that
18 burden interstate commerce--I'm sorry. Let me back
19 up. PDA agrees with strengthening licensing
20 requirement schemes, but these licensing schemes
21 should not seek to impose hodgepodge of pedigree or
22 other requirements that burden interstate commerce
23 by imposing different pedigree or authorized
24 distributor of record requirements in each state or
25 for different drugs when sold within a state.

1 Second, criminal penalties for knowingly
2 introducing or knowingly distributing counterfeit
3 drugs must be raised. Counterfeit drugs pose a
4 serious danger to the public, so the penalty for
5 knowingly handling these drugs must be heavy.
6 FDA's interim report notes that counterfeiting a
7 label has a larger penalty than counterfeiting the
8 drug itself. That does not make sense, and PDA
9 supports legislation to increase penalties for
10 counterfeiting.

11 PDA, in conjunction with the Healthcare
12 Distribution Management Association, HDMA, has
13 developed voluntary recommended guidelines for
14 pharmaceutical distribution integrity. Under these
15 guidelines, wholesalers will raise the level of
16 scrutiny of their sources of supply. In doing so,
17 we hope that sources with questionable integrity
18 will be identified and that they may have no
19 customers. Hopefully, they will also be
20 discouraged by our due diligence from trying to
21 enter the marketplace. The FDA is aware that
22 private industry does not have the legal authority
23 to impose mandatory guidelines on the industry
24 participants or punish those that don't follow
25 them.

1 The PDA believes that the FDA should
2 consider incorporating a number of the guidelines
3 into the present guidelines for state licensure of
4 wholesale prescription drug distributors to become
5 the current GMPs, or good manufacturing practices,
6 for holding prescription drugs. To the extent that
7 it has the regulatory power to do so, we encourage
8 the FDA to explore this possibility.

9 The PDA opposed implementation of the
10 FDA's 1999 Prescription Drug Marketing Act, PDMA,
11 final rule that would require that pedigree go back
12 to the manufacturer in every instance. But I want
13 to note that the failure to have a final rule does
14 not mean that the PDMA has been ignored. PDA
15 members provide a prescription drug pedigree that
16 goes back to the last authorized distributor of
17 record and will continue to do so. And FDA and
18 state officials have ample power to determine the
19 further prior history from authorized distributors
20 of record who must keep records on their own
21 premises.

22 PDA opposes the implementation of the 1999
23 final rule because authorized distributors of
24 record are exempted by the PDMA from providing a
25 pedigree. Ninety percent of the drugs in commerce

1 start at the big three prescription drug
2 wholesalers who are all authorized distributors of
3 record under the PDMA. And, therefore, 90 percent
4 of the drugs in commerce are sold, including the
5 wholesalers, without a pedigree requirement.
6 Implementation of FDA's final rule, as currently
7 written, will, therefore, effectively jeopardize
8 the businesses of over 6,000 small wholesalers who
9 will be faced with the choice of either demanding
10 pedigree from the major wholesalers who are legally
11 exempt from any requirement to provide it, to going
12 out of business because the drugs heretofore have
13 been distributed with a lack of the requisite
14 pedigree, or operating their businesses in
15 violation of law. This, of course, is really no
16 choice at all.

17 PDA supports the efforts to strengthen the
18 requirements for who may be an authorized
19 distributor of record and voluntarily will be
20 implementing definitions and submitting them to the
21 FDA for your consideration.

22 But PDMA was not designed to address
23 counterfeiting issues that confront the industry.
24 PDMA is antiquated, but it is the law. Not
25 surprisingly, our position is that the best

1 solution to the counterfeit problem is one that
2 involves mandating that manufacturers incorporate
3 tamper-evident technology into their products to
4 enable wholesalers, dispensers, and consumers alike
5 to identify authentic versus counterfeit products.

6 In arriving at a solution to prescription
7 drug integrity verification, FDA and manufacturers
8 need to work together to require and utilize
9 technology that can conform integrity at any point
10 in the system--wholesale, retail, and dispenser.
11 And it must be uniform technology that can be
12 utilized in a cost-effective manner throughout the
13 distribution system to the dispenser.

14 And in the meantime, manufacturers should
15 consider counterfeit deterrence. Overseas and
16 domestic manufacture and sale of United States
17 approved drugs for sale in other countries is the
18 same color and shape and at prices deeply
19 discounted from prices here does not make good
20 sense to counter counterfeit deterrence. The
21 current practice of one color and shape for all is
22 an invitation for smugglers to bring those drugs
23 back into the United States, and we agree with the
24 FDA that smugglers are the avenue to inject drug
25 counterfeits into United States commerce.

1 Additionally, anti-counterfeit and
2 tampering technologies could be used today and used
3 only for the United States market, and we believe
4 their use as well would achieve a substantial
5 deterrence to smuggling and counterfeiting.

6 To conclude, PDA supports strengthening
7 state licensing requirements, but there needs to be
8 uniformity with respect to commerce. Easy, logical
9 measures can be implemented by wholesalers that
10 will make entry to the marketplace much more
11 difficult for unscrupulous individuals and the
12 authorized distributor of record can be redefined
13 to include stronger objective parameters.
14 Penalties for counterfeiting can be enhanced.
15 Manufacturers can take logical measures to make
16 their products less susceptible to counterfeiting
17 and smuggling, and the FDA can mandate uniform
18 pharmaceutical integrity verification technology
19 that can be used throughout the distribution chain.

20 Thank you for your time today.

21 [Applause.]

22 MR. TAYLOR: In keeping with the first
23 panel, I'm going to ask the task force members if
24 they have any questions.

25 I'd also like the task force members,

1 before they ask a question, to also give your name
2 and also identify what part of FDA you're from, and
3 that will help the transcriber as well as others in
4 the audience, including the press, to match a
5 question to a person. So, Bill?

6 MR. McCONAGHA: I'm Bill McConagha with
7 FDA's Office of Chief Counsel, and I have a
8 question for Mr. Borschow first. And is Mr.
9 Bostian still here or did he--he fled? I don't
10 blame him. So I might then in turn address it to
11 Mr. Catizone.

12 What I'm curious about, gentlemen, is your
13 view or perception as to the appropriateness or
14 need for strengthened federal oversight by the FDA
15 with respect to this problem. We heard from Ms.
16 Wagner. She suggested that there were certain
17 behaviors that we ought to encourage but not
18 necessarily make mandatory. Mr. Riccardi talked
19 about potentially federal oversight in terms of
20 strengthening GMP and maybe requiring certain
21 things of manufacturers.

22 I'm curious, each of you in turn, what
23 your own views are as to the role of FDA and
24 federal oversight, mandatory oversight in terms of
25 addressing these issues.

1 MR. BORSCHOW: Well, we agree very much
2 with the Commissioner that what we need to have and
3 to continue to have is an effective partnership
4 between the government and private enterprise. It
5 has been very successful thus far, and we have been
6 able to maintain a very high integrity in our
7 system.

8 Certainly, as we stated, we endorse the
9 idea of looking both at the licensing process that
10 goes on and finding ways to improve that to
11 exclude, you know, potential threats through the
12 licensing process. And we also believe that we
13 should work towards, you know, increased penalties,
14 where appropriate, criminal penalties. And these
15 are clearly areas where government in one form or
16 another should intervene.

17 In addition to that, the work of the FDA
18 in terms of exploring with industry and identifying
19 the necessary process and technology changes has
20 been very effective. We salute the work of the
21 Anti-Counterfeit Task Force, which is, of course,
22 in progress. And we at our association have a task
23 force, a Product Safety Task Force, which is
24 working very closely on this. So that I think that
25 the role of government as a collaborative partner

1 is the one that we really endorse. We don't feel
2 that a specific technology should be mandated but,
3 rather, because of the multi-pronged approach that
4 needs to be addressed, the industry should be
5 encouraged to pursue all of the appropriate methods
6 and technologies, and that FDA in a sense has
7 served as a gathering place and a sponsor of the
8 type of dialogue that can help advance these
9 processes and make them happen much more quickly.
10 In many instances, it's a matter of dissemination
11 of information and developing understanding. Our
12 industry is a large industry, and a great deal of
13 information needs to flow.

14 So we salute FDA for its initiatives and
15 believe that the work that it's doing is very
16 effective.

17 MR. CATIZONE: Carmen Catizone with NABP.
18 We believe that the regulatory model that was
19 employed for PDMA has worked quite well, and we'd
20 like to see that model implemented while continuing
21 to deal with counterfeit drugs. And that model
22 basically was for federal legislation to establish
23 the ability of the states to regulate at a much
24 more specific practice of pharmacy type level.

25 We'd like to continue that as well as

1 identify areas that we think federal legislation
2 needs to be developed or strengthened, and two
3 areas that immediately come to mind probably would
4 deal with the technology issues, because there
5 needs to be uniformity among the technology or
6 technology requirements; and, two, the ability to
7 attain a national injunction relief or national
8 injunction against wholesale distributors that may
9 be operating illegally that would curtail the
10 ability of people to move from state to state to
11 avoid this type of enforcement or regulation.

12 MR. TAYLOR: Peg?

13 MS. O'ROURKE: I'm Peg O'Rourke from the
14 Center for Drugs. I have a question for all of the
15 panel members, any or all. We were talking earlier
16 about the electronic pedigree and the electronic
17 trace and track technology. While that is several
18 years away, it sounds like it would eventually
19 evolve into a sort of universal pedigree.

20 But given that's a distance away, to level
21 the playing field, which this might do, what is
22 your opinion on having a universal pedigree
23 requirement implemented now, even though it would
24 be on paper or a combination of paper and
25 electronic?

1 MS. WAGNER: Our organization doesn't
2 believe that the technology is really ready yet.
3 We think that certainly is the solution, to have an
4 electronic pedigree all the way from manufacture to
5 patient. But it's our understanding that many of
6 these technologies are not complete yet, so we
7 would hate to see something mandated that would
8 either add costs to the system or decrease
9 efficiencies to the system.

10 MR. CATIZONE: This is Carmen Catizone,
11 NABP. We think something needs to be done in the
12 interim because the incidence of counterfeiting
13 seems to be increasing. And it's interesting to us
14 and somewhat confusing that people would buy
15 prescription drugs from unknown sources and that
16 the paperwork would not exist for those people to
17 authenticate or verify those products to the other
18 consumers down the line in which they sell those
19 products.

20 So we would support some system, whether
21 it be paper or a combination of paper and
22 electronic, that provides the documentation that
23 would be needed to at least substantiate the
24 sources of these products and to determine whether
25 or not there's a trail of evidence where

1 counterfeiting could be detected or fraud be
2 detected.

3 MR. BORSCHOW: Among the voluntary
4 guidelines that our own association has been
5 developing is the issue of, in fact, being able to
6 ascertain the origins of products. And so we're
7 very much attempting to make sure through these
8 guidelines that product is not introduced of an
9 unknown origin.

10 However, we, on the other hand, believe
11 very strongly that track and trace technology is
12 actually closer, and we believe that an industry
13 initiative can, in fact, make it happen in a much
14 shorter time period than many might believe. We
15 have seen just in the last six to nine months
16 enormous progress in this area, and there's a
17 considerable effort, part of it sponsored by our
18 own association through our Collaborative Commerce
19 Committee and our Product Safety Task Force, which
20 we believe will help to advance that. And we do
21 have a group of industry players and stakeholders,
22 including some of these technology providers, who
23 are working very arduously on making this happen.

24 As I alluded to in my testimony, we
25 believe that at the simplest level this technology

1 is, in fact, very close to being available and
2 practicable, and I once again remind all of our
3 listeners that both Wal-Mart and the Department of
4 Defense have in unequivocal terms stated that they
5 expect that technology within a matter of on the
6 order of 18 months. So I think that we should not
7 for one moment believe that we're talking about
8 something that is a decade or more away. On the
9 other hand, we do have to understand that we are a
10 large industry and we are talking about many, many
11 tens of thousands of products, and certainly it
12 will take some time for even a fast-paced
13 technology to be completely ubiquitous. And
14 certainly we as an association, through our
15 voluntary guidelines and through our support of
16 FDA's multi-pronged approach, have attempted to
17 address the interim period. But certainly we
18 believe that the sooner that these types of track
19 and trace technologies can be brought into place
20 that we can really create an additional level of
21 security in our system.

22 MR. RICCARDI: Our association, the PDA,
23 believes that some of the prongs of the multi-
24 pronged approach can happen rather quickly, that
25 being the licensing requirements be increased.

1 I was able to sit on the ad hoc committee
2 in the State of Florida, and we had a subcommittee
3 in that state specifically focused on licensing.
4 And one of my colleagues here had mentioned earlier
5 that one of the states had over a thousand
6 wholesale licenses given out. And from one of the
7 agency member's mouth to my ears, they said it's
8 basically a rubber-stamp approach, and that's
9 wrong.

10 That needs to be changed, and that can be
11 changed quickly. I believe that the criminal
12 penalties need to be looked at. The pedigree--and
13 also the third thing would be to increase the
14 definition of what an authorized distributor is and
15 what the requirements are for you to become an
16 authorized distributor.

17 There's a catch-22 in PDMA. The
18 authorized distributor is not required to pass on
19 pedigree past the authorized distributor. But if
20 we increase the licensing requirements, the
21 criminal penalties, and the definition of who is an
22 ADR, and in short order, I believe that you're
23 going to eliminate a lot of the bad people that may
24 want to enter this environment.

25 And so I would like to see those things

1 occur and allow the good wholesalers, the ones that
2 operate their businesses every day for many years
3 in the past, not be jeopardized with the
4 requirement of paper pedigree, because if you don't
5 increase the licensing requirements, the criminal
6 penalties, and the AD definition, you're still
7 going to have criminals entering in and falsifying
8 paper pedigree, and that's not the answer.

9 MR. TAYLOR: Don?

10 MR. VASBINDER: My name is Don Vasbinder.
11 I work in the Office of Regulatory Affairs. My
12 question is for Mr. Riccardi.

13 You mentioned applying GMPs to
14 wholesalers, and I was wondering if you could
15 elaborate on that a little bit, what you had in
16 mind, any particular details. And if anybody else
17 wants to comment.

18 MR. RICCARDI: We intend to supply our
19 written comments as an association, but it has to
20 do with consistency and it has to do with raising
21 the bar. And we will supply that to the FDA task
22 force.

23 MR. VASBINDER: Okay. Thank you.

24 MR. BORSCHOW: I'd just like to add
25 something to that. We should know that wholesalers

1 today are one of the most highly--drug wholesalers
2 are one of the most highly regulated industries in
3 the entire nation and, in fact, are subject to a
4 constant and continuing scrutiny, not only from FDA
5 but from a whole other alphabet soup of government
6 and state agencies. And it's fair to say that
7 wholesalers have a pretty respectable level of
8 practices, but as I stated in my testimony, we have
9 very definitely been putting our heads together to
10 try to further enhance those practices through our
11 own voluntary guidelines in response to the
12 evolving threats that we must address.

13 And so we would place a particular
14 emphasis on that, and at the same time convey the
15 understanding that wholesalers and certainly our
16 association members are very, very carefully
17 scrutinized and have some very stringent practices
18 in place. And the result of that is the fact that,
19 as I stated, we distribute literally billions upon
20 billions of units almost without, you know, any
21 exception in the most correct fashion.

22 MR. TAYLOR: Thank you.

23 Ilisa?

24 MS. BERNSTEIN: I'm Ilisa Bernstein in the
25 Office of the Commissioner, the Office of Policy.

1 I have a question for Carmen.

2 We've said that it's pretty clear that the
3 state laws need to be strengthened. We're looking
4 at the laws. You said you're looking at the laws
5 and have developed a task force. Can you give us a
6 sense of where the states, the Boards of Pharmacy
7 or the regulatory authorities, what their thoughts
8 are and where you think that they would come down o
9 this?

10 MR. CATIZONE: As other members of the
11 panel have indicated, although we have more
12 uniformity in this area than in others, there are
13 still some variations. And I think some of the
14 states employ registration processes that may not
15 be as stringent or as significant as licensure
16 processes. And I think the threat of counterfeit
17 drugs has opened their eyes to say we have to take
18 a closer look at this and probably a stronger
19 regulatory approach.

20 So I believe that the state boards would
21 be in favor of enhanced state regulations to deal
22 with this issue.

23 MR. TAYLOR: Okay. Well, I want to thank
24 the members of Panel 2 very much for your
25 thoughtful comments, and I'd like Panel 3 to please

1 come to the table. The first speaker will be John
2 Gans from the American Pharmacists Association.

3 MR. GANS: I don't know whether to say
4 good morning or good afternoon. I knew I was going
5 to do good afternoon, but we've changed the
6 schedule a little bit.

7 Thank you for the opportunity to present
8 the views of the American Pharmacists Association.
9 Founded in 1852 as the American Pharmaceutical
10 Association, we were the largest national
11 professional society of pharmacists in the nation,
12 representing more than 50,000 practicing
13 pharmacists, pharmaceutical scientists, and student
14 pharmacists. Also, our reason to be was really
15 about the integrity of the drug supply back in
16 1852. It's interesting how we have now come almost
17 full circle on that, but there are a lot more
18 players and this responsibility falls really in the
19 hands of the FDA and for our part the USP.

20 First, let me provide APhA's support of
21 FDA's goal to combat counterfeiting through advance
22 technologies and the coordination of efforts of all
23 parties, including manufacturers, wholesalers,
24 pharmacists, and patients. The protection of our
25 medication supply is of vital interest to

1 pharmacists, including efforts to prevent an
2 introduction of counterfeit products into a system,
3 and the quick identification and elimination of
4 such products from the system if the medication
5 supply is infiltrated.

6 Pharmacists rely on a safe, pure supply to
7 help patients make the best use of their
8 medications. My comments today will address three
9 basic areas: the patient and provider education;
10 two, packaging and distribution technologies; and,
11 three, areas of public and private sector
12 collaboration to this important agenda.

13 Pharmacists have a role in this agenda as
14 educators, purchasers, and protectors of the
15 medication supply which they work with. As the
16 agency further develops this agenda, APhA
17 encourages you to consider two things:

18 First, we must keep in mind the goal of
19 all of our efforts should be to increase the
20 integrity of our drug supply and never move off of
21 that goal.

22 Second, we must consider the reality of
23 every member in the pharmaceutical system, and that
24 is the issue of limited resources.

25 While these things cost a lot of money,

1 when they move through the system there are very
2 limited margins in many of those areas. Therefore,
3 in determining your directions, you must look at
4 reasonableness, and reasonableness, we think, must
5 consider cost.

6 The cost of this new system should not
7 outweigh the benefits, and the cost/benefit
8 analysis of any new activity should be considered.
9 One approach to maximizing the use of our resources
10 would be creating standard processes for
11 identifying medications most likely to be
12 counterfeited and to focus our resources on those
13 drugs. Obviously, this review process would have
14 to be updated frequently to ensure that it remains
15 current.

16 One theme in the report and in today's
17 hearing is that staying ahead of very sophisticated
18 counterfeiters will require sophisticated counter-
19 measures. Technology is an important part of that
20 sophistication. APhA agrees with FDA's assertion
21 that new covert and overt technologies must be
22 implemented in combination to provide the strongest
23 system possible. Additionally, technologies must
24 be flexible to adapt to ever changing
25 counterfeiting activities.

1 To improve the integration of these
2 technologies in pharmacies, we recommend the agency
3 use practicing pharmacists to evaluate anti-
4 counterfeiting technologies and that they be used
5 at the pharmacy level. But technologies are only a
6 part of the solution. As medication experts on the
7 health care team, pharmacists play a leadership
8 role in identifying counterfeits and preventing
9 their introduction into the system, the
10 distribution system and educating consumers about
11 counterfeits and how to address a suspected
12 counterfeit product. We believe that pharmacists
13 and consumers are critical.

14 Recognizing this reality, APhA supports
15 efforts to increase the understanding by
16 pharmacists of the role they play in preventing
17 counterfeit medications from reaching patients to
18 help improve pharmacists' baseline understanding of
19 the regulation of our prescription drug supply.
20 Most pharmacists today I don't even think
21 understand all the licensing that's involved, so we
22 are publishing a continuing education piece in the
23 next few weeks that will address this issue.

24 APhA also supports the profession
25 developing and pharmacists implementing best

1 business practices for buying medications to help
2 them identify legitimate buyers. These simple
3 steps can move us closer to a better system, and it
4 can be done very quickly.

5 Another essential role pharmacists play in
6 protecting the medication supply is reporting
7 routine problems with products. Pharmacists are
8 the first health care provider notified by patients
9 of suspect medications and have an important role
10 in alerting the FDA and manufacturers about
11 suspected and counterfeit medications. But to
12 facilitate the reporting, pharmacists need timely,
13 accurate, and pertinent information. Such
14 notification should take place in a priority order,
15 with an optimal situation for notifying the
16 pharmacy community first, not the consumer press,
17 and an immediate subsequent notification to the
18 public and the rest of the health care system. By
19 communicating first to the pharmacy community, both
20 pharmacists and pharmacies, the agency will prepare
21 the community most likely to receive communica-
22 tions, to receive products back.

23 When a counterfeit medication is
24 suspected, pharmacists need the following
25 information: product name; lot numbers, including

1 the suspected scope of the problem; three, the
2 source and distribution and route of administration
3 of the product, how the product is suspected to be
4 counterfeit; and information on the level of risk
5 to the patient.

6 This information helps the pharmacist
7 determine the relative risk of the drug supply
8 which was infiltrated by the drug in question.

9 Consumers are essential to our efforts.
10 Patients need to be educated about how medications
11 differ from other goods, and other steps must be
12 taken to protect themselves. I recently worked on
13 an international paper that talked about
14 medications as being special. At first, I didn't
15 like the term, but as we moved into it, I began to
16 realize that the public through direct-to-consumer
17 advertising and some other steps, they may begin to
18 look at medications differently than they've looked
19 at them in the past. So we need to go back and
20 educate them that they have a role here.

21 To fulfill their role in identifying
22 counterfeit medications, patients must learn about
23 the importance of reporting and where to report
24 their concerns. They must understand how easily
25 drugs can be counterfeited and how difficult it is

1 to detect counterfeit drugs. Patients must
2 understand that medications are different from
3 other imported goods, and counterfeit drugs are not
4 necessarily evident to the human eye. They need to
5 know that they should tell their pharmacist when
6 the drug looks, smells, feels, and tastes different
7 than what they previously experienced.

8 All that being said, the consumer's best
9 protection from counterfeit medication is using
10 legitimate, trusted sources of supply--a licensed
11 U.S. pharmacy.

12 Moving to the area of packaging and
13 distribution, APhA agrees that pedigrees are an
14 important tool to consider adding to the kit of
15 anti-counterfeiting devices. In concept, pedigrees
16 may be an appropriate tool to track the preparation
17 of drugs from manufacturer to wholesaler to
18 pharmacist. However, we have significant concern
19 about cost, potential benefits, and the potential
20 benefits of a paper-based system which may only
21 provide a track record of product movement or
22 simply provide a counterfeit record of product
23 movement, a trail as fake as the product that it
24 accompanies.

25 The value of the paper-based system is

1 limited by the ease of counterfeiting paper
2 pedigrees. If an entity is sophisticated enough to
3 counterfeit a product, we believe that the entity
4 has the same and equal capability of counterfeiting
5 a paper pedigree. APhA recommends that the agency
6 consider alternate formats, such as an electronic
7 pedigree system. If such a system automatically
8 created a pedigree, it could be implemented with
9 minimal administrative burdens and would be less
10 likely to be falsely produced by counterfeiters.

11 In addition to the pharmacist's direct
12 role in reducing the risk of counterfeit products,
13 there are other components of the draft paper that
14 warrant comment, specifically unit-of-use
15 technology. Although there are many questions that
16 need to be addressed with this technology, APhA
17 supports the use of unit-of-use packaging because
18 of its potential to enhance patient safety, patient
19 adherence, and drug distribution efficiencies.
20 Efficient implementation of unit-of-use packaging
21 requires state laws to authorize the pharmacist to
22 modify prescribed quantities. Little issues like
23 "Is a month 28 days, 29 days, 30, 31, or is it 35
24 days?" need to be standardized.

25 When considering collaboration with the

1 role of the Boards of Pharmacy, it should always be
2 considered in developing an anti-counterfeit
3 agenda. Currently, many State Boards of Pharmacy
4 are faced with a challenge of regulating store-
5 front operations which facilitate personal
6 importation of pharmaceuticals. APhA firmly
7 believes that one of the greatest risks to patients
8 receiving counterfeit drugs is through personal
9 importation. These facilities are clearly
10 participating in the delivery of medications to
11 patients and practicing pharmacy. Unfortunately,
12 some of these store-fronts operate in a gray area
13 of the law.

14 APhA applauds FDA's work with the Boards
15 of Pharmacy and NABP and individual state
16 regulators to rein in these illegal and
17 unscrupulous distributors. We support efforts to
18 update NABP's rules, reviewing the 50 state
19 practice acts, and moving forward.

20 Finally, APhA recommends the agency
21 collaborate with private stakeholders in designing
22 communications strategies among stakeholders. The
23 private-public partnership could facilitate a
24 standard anti-counterfeit communication which would
25 be very helpful. The agency knows that "Dear

1 Doctor" and "Dear Pharmacist" letters are not
2 always read. APhA recommends using a website of
3 resources for pharmacy professionals,
4 pharmacists.com, to deliver FDA's message on
5 counterfeiting. Pharmacy.com is a single-source
6 site for professional resources that are vital to
7 the continuous development of pharmacists' needs
8 about professional development.

9 Pharmacist.com is a joint venture between
10 the National Association of Boards of Pharmacy and
11 APhA. And it assembles in one place resources that
12 pharmacists need. We now know that each pharmacist
13 in the country, over 200,000 unique visits have
14 occurred to this site, and it is well used. The
15 site also could be used to help pharmacists link
16 directly to MedWatch to facilitate and ease the
17 reporting of suspected counterfeits.

18 As medication experts and the most
19 accessible health care provider for patients to go
20 to with questions about medications, it's essential
21 that pharmacists play this role and be, in fact,
22 empowered to do it. APhA is pleased that the FDA
23 is addressing this important issue. The review of
24 current policies and systems is timely given the
25 recent increases in counterfeit medications and

1 importation by individual patients.

2 APhA looks forward to working with the FDA
3 as we collaborate to provide patients with quality
4 pharmaceuticals and the education to make the best
5 use of this valuable technology.

6 Thank you.

7 [Applause.]

8 MR. SCHECKELHOFF: Good afternoon. My
9 name is Douglas Scheckelhoff, and I am the Director
10 of Pharmacy Practice Sections for the American
11 Society of Health-System Pharmacists. ASHP is the
12 30,000-member national professional association
13 that represents pharmacists who practice in
14 hospitals, HMOs, long-term care facilities, home
15 care agencies, and other components of health care
16 systems. I am pleased to provide you with ASHP's
17 views on the serious problem of counterfeit drugs
18 entering the nation's drug supply chain.

19 In June of this year, ASHP adopted a
20 policy that encourages the FDA to develop and
21 implement regulations to restrict or prohibit
22 licensed drug distributors from purchasing legend
23 drugs from unlicensed entities and to accurately
24 document the original source of drugs and chain of
25 custody from the manufacturer to the pharmacy. My

1 comments today and ASHP's written comments in
2 response to the Federal Register notice will
3 discuss how that policy relates to the work of the
4 FDA Counterfeit Drug Task Force.

5 Over the next few minutes, I would like to
6 comment on four areas that are addressed in the
7 interim report. These include regulatory and
8 legislative issues, industry and health care
9 professional issues, technology issues, and public
10 education.

11 First, regulatory and legislation issues.
12 Most consumers have no idea of the scope and
13 complexity of the drug distribution chain in its
14 business components, particularly the buying and
15 selling of products between wholesalers. ASHP
16 remains extremely concerned about vulnerabilities
17 in the pharmaceutical supply chain, particularly
18 with respect to secondary distributors. While
19 these entities may perform a role in providing
20 needed medications in some situations, ASHP
21 believes that stronger state and federal oversight
22 may be needed.

23 Any changes to federal law and regulation
24 should be patterned after recent legislation
25 enacted in Florida. Florida's new law begins to

1 address the lack of authenticating and documenting
2 the chain of custody of a product from the
3 originating manufacturer. This is particularly
4 important with respect to the high-risk drugs
5 identified by the state as being prone to
6 counterfeiting.

7 Recent discussions by ASHP's policy
8 recommending councils noted the need for uniformity
9 in state regulation of a national standard in order
10 to maintain the integrity of the drug supply.
11 However, we should be sensitive to the unintended
12 consequences of the creation of new barriers in
13 distributing prescription drugs, particularly with
14 respect to legitimate returns of unused product
15 from pharmacies.

16 ASHP does not believe that paper pedigrees
17 are an optimal solution to the counterfeiting
18 problem. However, ASHP believes that the
19 development of a limited uniform list of drugs
20 considered to be at high risk for counterfeiting
21 and determined by the FDA should be a priority.
22 Products on the list should not be shifted around
23 among wholesalers. This list should be maintained
24 through a paper pedigree system in the interim,
25 with the eventual goal of developing an electronic

1 pedigree for these and other drugs.

2 In terms of augmenting state pharmacy
3 practice acts, ASHP believes that attempting to
4 rely on State Boards of Pharmacy to improve control
5 over wholesalers will require 48 or 49 additional
6 states to take actions similar to Florida and,
7 therefore, be inconsistent and potentially delayed.
8 In the meantime, counterfeiters will simply move to
9 states with fewer restrictions and controls. Many
10 Boards of Pharmacy and Health Departments do not
11 have the resources needed to effect the needed
12 changes at the state level, and effective anti-
13 counterfeiting measures will be slow in coming.
14 The FDA should become more involved in controlling
15 wholesalers.

16 Now onto industry and health care
17 professional issues. Electronic means and systems
18 for alerting pharmacists to counterfeit products
19 already exist through professional organizations.
20 For example, ASHP maintains an e-mail list of over
21 23,000 members who receive news items from us on a
22 weekly basis. The development of a new independent
23 counterfeit drug alert network is not needed since
24 other systems already exist, and the cost of
25 populating and keeping a system such as this

1 current would be prohibitive.

2 ASHP stands ready to provide rapid alerts
3 to members and hospital pharmacy departments about
4 counterfeit drug incidence, which is in keeping
5 with our longstanding partnership to the FDA's
6 MedWatch reporting system.

7 Pharmacists should be the focal point for
8 patient contact, education and follow-up when a
9 product is suspected of being counterfeit.
10 Training materials should also be developed to
11 educate pharmacy and product receiving staff with
12 information on how to screen product packaging and
13 what steps to take when they find a suspicious
14 product.

15 Now, the technology issues. ASHP believes
16 that applying technology for overt security methods
17 will be of limited value to most pharmacists as a
18 means of verifying authenticity. The reality is
19 that most hospital pharmacies stock more than 1,500
20 distinct products from hundreds of vendors. It
21 would be virtually impossible for pharmacy staff to
22 be knowledgeable about the specific overt methods
23 for each company and product. In addition, many
24 experts agree that overt security methods should be
25 changed at least annually to keep ahead of

1 counterfeiters. All of these factors contribute to
2 the complexity of the problem. Covert security
3 methods may be of some value as a means of
4 authenticating product but only when the product is
5 suspect. Whatever technologies are adopted need to
6 be practical and inexpensive for the use at the
7 pharmacy level. Funds might be better spent on
8 technology for a universal electronic pedigree for
9 drug products facilitated through some sort of
10 machine readable coding on drug packaging.

11 Finally, public education issues. Public
12 education activity should focus on overall public
13 awareness of the counterfeiting problem, but
14 generally not focus on specific products. Messages
15 should alert patients to be on the lookout for
16 problems such as a different look, taste or
17 packaging of a drug, and instruct consumers to
18 bring these problems to the attention of their
19 pharmacists. Perhaps public education programs
20 focusing on product integrity could be the focus of
21 next year's National Pharmacy Week public service
22 campaign.

23 ASHP appreciates the opportunity to
24 present its views at this meeting, and we applaud
25 the FDA's efforts. Thank you.

1 [Applause.]

2 MR. MAYBERRY: Greetings. My name is
3 Peter Mayberry, and I am here today on behalf of
4 the Healthcare Compliance Packaging Council, a not-
5 for-profit trade association established in 1990 to
6 promote the many benefits of unit dose blister-in-
7 strip packaging.

8 For anyone not familiar with unit dose
9 packaging, it is widely used throughout most of the
10 rest of the world as manufacturer's original
11 packaging to dispense pharmaceutical drug products.
12 In the United States, however, unit dose formats
13 are primarily used for over-the-counter drugs and
14 only one class of Rx drugs, oral contraceptives or
15 birth control pills, is dispensed in unit dose
16 formats as the manufacturer's original packaging.
17 It is also used with some individual drug products,
18 but by and large, most drugs in the United States
19 are dispensed in bulk rather than in manufacturer's
20 original packaging.

21 Now, while unit dose formats can take many
22 forms, the distinguishing characteristic of these
23 packages is that each dosage unit is housed in a
24 separate compartment. For solid oral dosage drugs
25 such as pills, capsules and tablets, unit dose

1 packages typically take the form of a blister card
2 which houses multiple single dosages in separate
3 cavities, but unit dose packaging can also take the
4 form of strips, ampules, pouches, or any other
5 configuration in which each dosage unit is kept
6 separate from all others. I should also point out
7 that unit dose packaging is non-reclosable so it's
8 only used one time.

9 Corporate members of the Healthcare
10 Compliance Packaging Council include manufacturers
11 of the film, foil and paperboard used to create
12 unit dose packaging, as well as manufacturers and
13 machinery use in the production of unit dose
14 formats. HCPC corporate members also include
15 contract packaging firms who are hired by
16 pharmaceutical manufacturers to put drug products
17 into specialty packaging, and repackaging firms who
18 purchase drug product from pharmaceutical
19 manufacturers, put that product into unit dose
20 formats and resell it to hospitals, inpatient
21 facilities and others.

22 My message today is to commend FDA for
23 recognizing the role that unit-of-use packaging
24 formats can play in deterring counterfeit drug
25 products as noted in the recently released interim

1 report from FDA's Counterfeit Drug Task Force.
2 Unit dose formats are a subset of unit-of-use
3 packaging, and as such, FDA should strongly
4 consider action that would result in greater use of
5 unit dose formats as manufacturers original
6 packaging. The HCPC also supports FDA task force
7 findings regarding the need for pedigree
8 requirements for repackaged drug products, use of
9 tamper-evident packaging, and the incorporation of
10 covert and overt anti-counterfeiting technologies
11 in pharmaceutical packaging and labeling.

12 Simply stated, the growing problem of drug
13 counterfeiting in the United States could be
14 deterred significantly if counterfeiters have to
15 replicate drug products as well as the
16 manufacturer's original packaging, or replicate the
17 professionally repackaged pharmaceuticals in unit
18 dose formats that bear the products pedigree. This
19 is especially true with unit dose formats where
20 counterfeiters would have to have access to
21 expensive form, fill and seal machines used by
22 pharmaceutical manufacturers, contract packagers
23 and large-scale FDA-licensed repackaging
24 operations. Moreover, unit dose formats can be
25 designed with multiple features that deter

1 counterfeiting. While it would be inappropriate in
2 a public setting for me to outline exactly what
3 sorts of anti-counterfeiting features are currently
4 available, I can say that unit dose formats can
5 include features that are incorporated into the
6 packaging materials, printed on the packaging,
7 adhered or embedded int packaging or otherwise used
8 in such a manner that consumers and counterfeiters
9 alike may never even know that the features are
10 present.

11 On behalf of the entire HCPC I thank FDA
12 for this opportunity to present our views. I also
13 volunteer the expertise of our industry to meet
14 with FDA officials and demonstrate some of the
15 anti-counterfeiting features which are currently
16 available.

17 Thank you.

18 [Applause.]

19 MR. TREALEAVEN: My name is Carl
20 Trealeaven. I am the Vice Chairman of the
21 Pharmaceutical Printed Literature Association. The
22 Pharmaceutical Printed Literature Association,
23 known as the PPLA, plays a key role in the supply
24 chain for pharmaceuticals, linking product
25 manufacturers with pharmacists, and upon occasion,

1 patients. We're responsible for printing the
2 majority of package inserts distributed in the
3 United States today. Our close association with
4 the pharmaceutical manufacturers qualifies us to
5 comment on packaging and security technologies that
6 can strengthen supply chain integrity. To that
7 end, we offer the following recommendations.

8 First, the FDA should encourage the use of
9 specific security technologies in product
10 packaging. As has already been discussed today,
11 these technologies can be characterized as both
12 overt and covert. And overt security tools are the
13 ones that are easily identified, and the covert
14 ones are not and require a highly-trained eye or
15 even sophisticated tools to detect them. We
16 believe that both methods ought to be used.
17 Examples of some of the overt technologies are
18 holograms, radio frequency ID tags, paper
19 watermarks and intentional print error on the
20 package. And examples are some of the covert
21 features are invisible markings or threads that are
22 embedded into paperboard, micro print, micro tags
23 in the paper stock or packaging adhesive and
24 security inks.

25 Common manufacturing practices in printed

1 packaging should be leveraged and expanded to
2 better utilize the authentication and track-and-
3 trace technologies. The pharmaceutical industry is
4 served by a group of printed packaging suppliers
5 that currently operate under the CGMPs. And
6 although not audited by the FDA, suppliers that are
7 held to the highest standards by the most demanding
8 customers adhere to policies and procedures that
9 can be expanded to utilize authentication and
10 track-and-race technologies.

11 Second, the PPLA supports findings by
12 FDA's Anti-Counterfeiting Task Force regarding the
13 role that unit-of-use package formats can play in
14 deterring counterfeiting. The most effective means
15 of incorporating and preserving package security
16 technologies throughout the distribution chain is
17 through manufacturer provided unit-of-use
18 packaging. Without such packaging the integrity of
19 the supply chain between manufacturer and consumer
20 is broken at the pharmacy stage and counterfeit
21 product can more easily be inserted into the
22 distribution chain.

23 Fourth, the PPLA reiterates our testimony
24 before the FDA on July 31st that mandatory FDA-
25 approved manufacturer produced printed information

1 for consumers can help fight counterfeiting and
2 empower consumers as the last line of defense in
3 combating counterfeit drugs. Overt and covert
4 security features can be incorporated into patient
5 package inserts, package inserts and medication
6 guides to maintain the security of the supply chain
7 all the way to the end user. Patient-facing
8 security enhancements also can be accomplished via
9 manufacturers' self-adhesive labeling and folding
10 cartons that require special equipment to produce
11 and are therefore difficult to unlawfully
12 duplicate.

13 The PPLA applauds the FDA in its efforts
14 to aggressively address drug counterfeiting and
15 stands ready to assist the Agency in employing
16 security technologies and packaging to advance
17 anti-counterfeiting strategies.

18 I thank you.

19 [Applause.]

20 MR. TAYLOR: Okay. Any questions from the
21 task force members? It's Michael. Just state
22 where you're from.

23 MR. ROGERS: I'm Michael Rogers. I'm in
24 the Officer of Regulatory Affairs, and I'm the
25 Director of the Division of Field Investigations.

1 I guess I have a general question for the
2 panel, and that is whether or not you all see any
3 opportunities to enhance the reporting requirements
4 for those who receive suspected or counterfeit
5 products?

6 MR. GANS: I think that your systems work
7 fine. It's pharmacists knowing about those. I
8 don't think it will ever get to the point where
9 consumers would know about their access, et cetera,
10 and I think you need to be constantly working with
11 professional associations of pharmacists to
12 advertise those links, how to make those reports.
13 That needs to be constantly done to put it top of
14 mind to a pharmacist.

15 MR. SCHECKELHOFF: I would agree that it's
16 largely an awareness issue I think for pharmacists.
17 The other part is really having a system where
18 pharmacists can authenticate or validate whether
19 it's a real problem product or not, so that there's
20 not a lot of reporting of things that shouldn't
21 actually be reported and ending up with a system
22 that's flooded with false reports.

23 MR. MAYBERRY: My association doesn't have
24 any expertise in this area, but my personal view is
25 that consumers should be involved and should have

1 knowledge of who to report counterfeits to.

2 MR. TAYLOR: Yes, Vicky?

3 MS. KAO: Hi. This is Victoria Kao,
4 Officer of External Relations.

5 I have a question about pharmacists--
6 excuse me--an awareness campaign for pharmacists.
7 Again and again we've heard today it stressed that
8 customized messages delivered correctly to targeted
9 audiences is crucial to the success of any
10 educational campaign, and I was just wondering, for
11 the pharmacists, your presentations went very much
12 in depth into the messages and the information that
13 you need to hear from law enforcement officers,
14 from regulators. I was wondering if you could
15 touch a little bit on the mechanisms you think that
16 would be successful in us delivering those messages
17 to you?

18 And the second part of the question is, as
19 was also stressed today, that it takes money to
20 have a successful public education awareness
21 campaign, that we at the FDA don't have that
22 luxury, and I was wondering if there are mechanisms
23 out there among your organizations that would step
24 to the plate and help us in such a collaboration?
25 How can we best hone the messages out there and to

1 continue to hone and focus these messages
2 successfully with your help?

3 MR. GANS: I think we need to take a step
4 back and have a very consistent long-term approach,
5 a certain access point, 800 number, website, et
6 cetera. All pharmacies that I know of have
7 administration distribution computer systems, and
8 there has to be a way to effectively penetrate
9 those systems through the FDA, state boards of
10 pharmacy, through the large chains, through
11 hospitals, et cetera, to be able to get that
12 message and be able to immediately access that for
13 a pharmacist, and I think that should become sort
14 of a requirement that the FDA could get that
15 information into the system.

16 As far as--and then we have our own
17 websites which could easily be used, and they're
18 getting tapped all the time. I mean we have one
19 website for the Pharmaceutical Technician
20 Certification Board that gets over a million web
21 hits a month from technicians, so they're looking
22 for information all the time. So what you've got
23 to do is get it standardized and get it out there
24 and just continue to repeat it and make it easily
25 accessible, and accessible the same way in

1 everybody's system. So that's how I would do it
2 for pharmacists.

3 As far as the consumer is concerned, I
4 don't know how you're going to communicate to
5 consumers how they report information back. Most
6 consumers are going to take the product back to the
7 pharmacy that they got it from or to call that
8 pharmacy, and since most counterfeiting does not
9 occur in a hospital or a community pharmacy,
10 they're going to get a positive result from that
11 pharmacist talking them through it, and then going
12 on some website somehow to pull down information if
13 that product has been reported as a counterfeit.
14 So that's how I think we're going to deal with it
15 with consumers.

16 And the way to finance that is there's
17 plenty of money out there to do direct consumer
18 advertising, and one of the things that concerns me
19 about our profession and industry is there's lots
20 of great ads on anti-tobacco, there's lots of great
21 ads on not driving and drinking. I think we've
22 done a great job of penetrating people about
23 driving when they've had too much to drink or had a
24 drink. I think it's time that we took some of that
25 money and began to tell the consumer about what

1 they needed to know about counterfeit drugs and
2 that they do exist and where to buy them. So those
3 messages could become part of, it seems to me, the
4 requirement among these advertising programs. A
5 lot of people making money off of drug ads. It
6 seems to me they could put a little space into
7 doing consumer-oriented ads at your behest.

8 MR. SCHECKELHOFF: I would agree that
9 having a consistent message that can be shared with
10 pharmacists would be helpful and something that
11 they can, you know, grab onto and remember. I
12 think working with the professional associations
13 will allow you to get to a very high percentage of
14 practicing pharmacists, and by using things like
15 state boards of pharmacy newsletters, you'll get to
16 every pharmacist who's licensed in those states.
17 So I think those type of communication tools will
18 be able to get the message out, but it's an ongoing
19 thing that will need to happen over and over.

20 MR. TAYLOR: Jeff?

21 MR. SHUREN: Jeff Shuren, Office of
22 Policy.

23 This is a question to the panel. We've
24 had a lot of discussion today about the potential
25 value of using anti-counterfeiting technologies,

1 and as you all know, if there's value to it, it
2 requires not only adoption but actually use of
3 those technologies by the various participants in
4 the drug distribution system.

5 I want to get your sense of the role, if
6 any, of the market, health care organizations, the
7 states and the federal government in promoting or
8 requiring the adoption of those technologies as
9 well as the use of those technologies by various
10 participants.

11 MR. MAYBERRY: Speaking from the packaging
12 perspective, we're of the opinion that perhaps the
13 greatest thing that could be done is a movement
14 away from the current paradigm in the United States
15 where drugs are dispensed in bulk from the
16 manufacturer by and large. The bulk distribution,
17 which is somewhat unique to the United States,
18 operates all sorts of opportunities for introducing
19 counterfeits into the system. Now, whether there
20 ought to be regulatory requirements or whether
21 industry ought to be encouraged to move away from
22 bulk distribution and more into unit-of-use and
23 unit dose distribution, I wouldn't want to speak to
24 that subject with such a limited amount of time,
25 but the bottom line is that the entire nation would

1 benefit if we moved from bulk and more to
2 manufacturers' original packaging.

3 MR. GANS: There is an enormous amount of
4 money being spent by pharmacies to repackage drugs.
5 They're buying machines that can do so many
6 prescriptions an hour to replace a pharmacist, and
7 to us, if we were into the unit-of-use type of
8 system, that's money that doesn't need to be spent.
9 Plus the packaging I think gives us all kinds of
10 advantages. So we have investments into these
11 machines, 50, 100, \$150,000. They easily return on
12 investment because you eliminate a pharmacist's
13 salary if you have enough volume. Why are we even
14 doing that? Why don't we have standardized
15 packaging in this country? It seems to me that if
16 you have standardized packaging, that gives you a
17 whole lot of other material to put anti-
18 counterfeiting devices into it. I mean you look at
19 this new \$20 bill, one of the big jokes when you
20 travel internationally is that people love to
21 travel with American money and Canadian passports,
22 but most foreigners don't like our money because it
23 looks all the same, and every now and then they
24 whip out a \$100 bill and they mean to whip out a
25 20, but they both look the same to them.

1 Well, I think our drug products and our
2 mass and our bulk is something that we're moving
3 away from, and there was a big debate in our House
4 of Delegates this year, where one delegate took on
5 500 people and turned all of their minds from
6 moving away from us requiring unit-of-use to
7 requiring unit-of-use. That's our policy today.
8 So we would strongly encourage moving in that
9 direction, and then having different things
10 embedded in there to help us determine whether or
11 not something was counterfeited.

12 MR. MAYBERRY: Including barcodes.

13 MR. TREALEAVEN: We would also support, as
14 I had said in my comments, the use of unit-of-use
15 or possibly unit dose, but the idea is, is to have
16 a package that goes directly from the manufacturer
17 intact all the way to either the pharmacist or
18 occasionally the end user. So there isn't, as the
19 other gentleman said, any type of repackaging.

20 The other thing I would add in there would
21 be--a possibility you could do is to mandate that
22 there is at least one overt and one covert security
23 feature in each package. Now, you wouldn't
24 necessarily have to mandate the specific type that
25 you put in. Perhaps you might offer a menu of

1 choices to the manufacturer, a menu of overt
2 features that you might put in, and a menu of
3 covert. But simply to say that you have to have at
4 least one of each on the package, and then provide
5 a means of educating the users of the product what
6 those different features are, and then how actually
7 they might use them, but the important point is, is
8 that you mandate that there must be something like
9 this in there and you have to have at least one of
10 each unit.

11 MR. SCHECKELHOFF: As I mentioned in my
12 comments, I think that you have to take into
13 consideration, when it comes to technology,
14 especially covert, is that virtually every pharmacy
15 out there is very busy and has a high volume of
16 products. So when you look at the monetary system
17 where you have maybe four or five different bills
18 that are used commonly, it's the awareness that
19 people need to have of what those overt methods are
20 is very limited, but when you have hundreds and
21 even thousands of different products it's just not
22 going to be practical and it would be a shame to
23 spend that money and not have it to use, and our
24 belief is that spending money on an electronic
25 pedigree system would be money better spent.

1 MR. TAYLOR: Any more questions from the
2 panel, task force?

3 We realize that lunchtime has come and
4 gone and that we're a little behind. We were going
5 to break for lunch now. However, members of Panel
6 4 were originally scheduled to go on before lunch,
7 so if there are any members of Panel 4 that would
8 like to go on before lunch, I invite you to do. If
9 not, what I propose is that we have a 45-minute
10 lunch, and then we come back and start Panel 4.

11 Yes, sir?

12 MR. BLAIR: Can I make a suggestion? As
13 far as community awareness is pharmacists are
14 licensed practitioners and continuing education is
15 required. A great way to get to those
16 practitioners is through mandatory CE on
17 counterfeit would be one option that would be
18 funded by drug companies or whomever. It would be
19 very low cost. The second one is the unit-of-use
20 packaging is--I've seen that work in the UK--by the
21 way, I'm Jerry Blair with Cerna [ph] Corporation.
22 The unit-of-use packaging they use in the UK is
23 very beneficial in the fact that not only does it
24 give you the ability to do counterfeit, but it also
25 improves patient safety significantly, so by

1 getting that all the way to the patient.

2 MR. TAYLOR: Thank you.

3 It sounds like we're ready to go to lunch.

4 People, please report back in 45 minutes, which is
5 1:30. There is obviously a restaurant upstairs.

6 I'm not sure if they can service everyone, so
7 there's some other restaurants in the area, next
8 door to the hotel, Chatters and another place.

9 [Whereupon, at 12:45 p.m., there was a
10 luncheon recess.]

1 I think that was a theme that you heard echoed
2 throughout the morning, and certainly is one that
3 we will keep to as well. I will try to go quickly
4 over some of the points that were covered by
5 earlier speakers, because I think there were some
6 common themes that you heard, while saving time to
7 amplify on those issues that PhRMA believes to be
8 particularly important.

9 I think as everybody is agreed so far,
10 there's no single approach or technological magic
11 bullet to anti-counterfeiting, and PhRMA strongly
12 believes that a systems approach is necessary that
13 involves both technology approaches as well as
14 improved regulations. And ultimately a closed
15 distribution system is the system that best assures
16 product authenticity. And as we will touch on in
17 some of the latter slides, stiffer criminal
18 penalties and improved regulatory approaches are
19 definitely needed.

20 In order to assure product authenticity
21 PhRMA member companies already--and I think this is
22 a point that wasn't stressed earlier today--are
23 employing both covert and overt approaches, both in
24 terms of formulation development, as well as in
25 packaging. Some of the covert approaches that

1 involve taggants or forensic analysis are
2 particularly useful in assessing authenticity.
3 However, they do not permit real time
4 authentication, so if a pharmacist has questions
5 when he opens the bottle, those technologies are
6 not going to be useful in that setting.

7 In terms of overt approaches, companies
8 are using special printing features. Tamper-
9 evident packaging is being widely used. However,
10 and the theme that we have heard constantly, is
11 there is the need to rotate solutions, and in
12 particular, probably on a 12-month horizon. So
13 you're then faced with the question, what does the
14 pharmacist see as these features start changing?
15 Are they going to have to go back and look up and
16 see, well, do I look for a color changing ink in
17 this case or a new hologram here? It's still going
18 to cause some problems at the workplace.

19 Track-and-trace was identified a little
20 earlier. I think everybody believes that when this
21 is fully employed it represents our best attempt to
22 ensure authenticity. However, there are some major
23 hurdles that need to be overcome. We will need to
24 have serialized identification on all packaging
25 units so that when the pharmacist dispenses they

1 can close out the database for that particular
2 serial number. It can be done with barcode under
3 existing technology, and I know that my good
4 friend, John Roberts, will be on a later panel, and
5 he'll talk about some of the work that the Uniform
6 Code Council has done.

7 RFID technology has been mentioned. The
8 Commissioner has mentioned it. I think a lot of
9 folks are excited about it. Again, there's a lot
10 of work that is going to need to be done.

11 The second bullet here, as I already
12 noted, a need for an open standard, and then I
13 think a critical issue here is the information
14 technology infrastructure that is going to be
15 needed to record each transaction.

16 And the ultimate final bullet her is the
17 time and cost of implementation and a lot of
18 question marks here. We don't know how long it's
19 going to take to implement this down to a single
20 packaging unit. I'm not talking about bulk
21 packaging at either the case or pallet level which
22 maybe can be done a little quicker, but that's not
23 going to provide I think the security that we need
24 to look at the whole chain.

25 We have heard from one of our

1 manufacturers that they distribute--and this is a
2 worldwide figure--a billion package units per year.
3 So even if you get the cost of RFID chips way, way
4 down, this is still a lot of money on a yearly
5 basis for a manufacturer to be investing.

6 The bottom line it--and I'll touch upon
7 this a little bit later--is, well, there is a need
8 for an interim paper pedigree requirement to track
9 transactions.

10 I'd like to now turn to some of what we
11 call the regulatory issues here, and there are four
12 principal ones here: finalizing the PDM pedigree
13 requirement, strengthening licensing requirements
14 for wholesalers, addressing repackaging
15 requirements, and increase penalties and
16 enforcement activities for counterfeiting. And
17 again, some of these we've already heard from from
18 previous speakers.

19 PhRMA feels very strongly, and I think we
20 stated so at the Part 15 hearing, John, that you
21 chaired, I think it was back in 2000. So we're
22 almost three years now, that the pedigree
23 requirement should be implement. We realize it's
24 been stayed. However, drug pedigrees do serve two
25 very important purposes. They prevent introduction

1 of counterfeits into the supply chain and they
2 facilitate the recall of counterfeit products.

3 PhRMA believes--and I think if one goes
4 back and reviews the congressional record on this
5 that the final rule is an accurate reflection of
6 congressional intent and will help prevent
7 counterfeits from entering the drug supply.

8 In terms of the pedigree what has changed
9 since the law was passed? We're already heard
10 there have been an increased number of FDA
11 counterfeit investigations. We know that there's
12 an increased sophistication of counterfeiters.
13 Even sophisticated holograms can be replicated
14 within six or seven months time. There are
15 increased health risks to the public if they get a
16 counterfeit product, and one only need turn to the
17 Florida Grand Jury report, which took an extensive
18 look at what was going on in the state of Florida
19 in terms of counterfeiting, and their conclusion
20 was that there's a strong need for a pedigree
21 requirement to deter counterfeiters, and here is
22 some language from the grand jury report, and I
23 would also note that PhRMA was very active in the
24 discussions that went on in the state of Florida to
25 strengthen their state regulations.

1 The options to strengthen the
2 effectiveness of the pedigree is to have a
3 universal pedigree that requires all wholesale
4 distributors to pass pedigrees along including
5 authorized distributors, so this would address one
6 of the issues that a speaker raised earlier, and
7 secondly, to require pedigrees to be passed to all
8 customers including retail pharmacies. And then
9 verification to require purchasers to verify the
10 authenticity of pedigrees.

11 In terms of wholesale licensing--and again
12 we heard a significant amount of this earlier this
13 morning--this is done at the state level. We have
14 50 states so there are 50 different sets of
15 requirements, and in some cases enforcement may be
16 lax. Again, this was extensively dealt with by the
17 Florida Grand Jury, and there were significant
18 problems there which have been corrected with the
19 stronger state regulatory approach. And it may be
20 perhaps that federal standards for wholesaler
21 licensing need to be strengthened.

22 PhRMA believes very strongly that there
23 need to be efforts to deal with repackaging.
24 Recent counterfeiting investigations have involved
25 such operations, and there are two key points here.

1 Repackaging poses a risk to product quality because
2 the repackager may not use the container closure
3 system that is in the original NDA and which was
4 studied exhaustively by the manufacturer, so it
5 could present some issues with regard to product
6 deterioration. And secondly, if we are going to
7 move to implementing some types of anti-
8 counterfeiting technologies on packaging, the
9 simple act of repackaging will negate anything that
10 the manufacturer might have done in that regard.

11 So PhRMA believes strongly the FDA should
12 reassess policies regarding repackaging in light of
13 this threat, and if the Agency decides to move in
14 the direction of requiring anti-counterfeiting
15 technologies to be included in packaging, that
16 repackagers should be subject to the same
17 requirements, that is, whatever the packaging
18 technologies that are decided on as the original
19 manufacturer.

20 In terms of increased penalties and
21 enforcement, this was discussed by the first panel.
22 We also believe that it would be useful to take a
23 long, hard look at the criminal and civil penalties
24 for counterfeiting and strengthen those. Again,
25 this was noted, that the penalty for drug

1 counterfeit is three years, and as we say in the
2 third bullet here, there is significantly greater
3 criminal penalties for distributing illicit drugs
4 than there is for the counterfeiting of legal
5 drugs, which actually put patients' health at risk.

6 The penalties for counterfeiting a
7 pharmaceutical should be commensurate with the
8 significant public health threat posed by the
9 counterfeit drugs, and sufficient to deter
10 counterfeiting activities, particularly those that
11 are carried out by organized crime.

12 In conclusion, PhRMA believes that all the
13 stakeholders need to have a primary focus on
14 patient safety. We're working on the task force
15 that HDMA has convened to look at electronic track-
16 and-trace simply because we believe that this
17 represent probably the best approach, but we have a
18 number of trading partners, the distributors, the
19 pharmacies, and then ultimately the patient, that
20 we all need to keep part of this as we move
21 forward, so that patient safety is not compromised.

22 I thank you for the opportunity to present
23 today.

24 [Applause.]

25 MR. KUBIC: Good afternoon. My name is

1 Tom Kubic. I'm the Executive Director of the
2 Pharmaceutical Security Institute, and I'm pleased
3 to join my colleagues in discussing an issue of
4 growing importance to all Americans. I also want
5 to join my colleagues in thanking the FDA for
6 hosting this hearing. As you look at your anti-
7 counterfeiting initiative, it's clear to me that
8 there is much work to be done.

9 Because of the limited time I'd like to
10 focus my comments on four areas that I believe are
11 critical to a successful anti-counterfeiting
12 effort, those being the opportunities and limits of
13 technology. I'd like to discuss some best business
14 practices currently being employed by the
15 manufacturers, talk a little bit about the improved
16 or the need to improve information sharing, and
17 then close with a discussion about some
18 recommendations for an improved and enhanced FDA
19 effort at international investigations.

20 In late 2001, in order to strengthen their
21 response to the growing threat of counterfeiting,
22 16 research-based pharmaceutical manufacturers came
23 together to establish the current PSI. The goal of
24 PSI is to support its members in their efforts to
25 ensure the distribution of pharmaceuticals that are

1 safe and effective. PSI's mission is to collect,
2 analyze and disseminate information about
3 counterfeiting, theft, as well as diversion of
4 medicines. This information is then shared with
5 the appropriate authorities here in the United
6 States and in other countries throughout the world.

7 Echoing some of the earlier comments about
8 the global nature of counterfeiting, in fact, in
9 the 2002 PSI situation report, we did find
10 counterfeiting as having been identified in 32
11 countries. For the first three-quarters of the
12 fiscal year 2003 that number has risen to 36
13 countries and I think that this trend is entirely
14 likely to continue as the well organized
15 counterfeiting groups expand and develop further
16 their illegal operations.

17 The increasing number of investigations
18 undertaken by FDA is just one indicator of the
19 success of counterfeiting organizations and these
20 are just the instances that we currently know about
21 and have been able to identify. Counterfeit,
22 mislabeled, diluted, expired and contaminated drugs
23 have entered the American pharmaceutical system
24 because in part the market is such an irresistible
25 lucrative target to these organizations, and also

1 in part because of the dispersed distribution
2 system.

3 I was also pleased to see the FDA's
4 interim report clearly stated that there are limits
5 to each and every technological fix. There simply
6 is no single technological solution to
7 counterfeiting. Criminal organizations and their
8 associates will continue to adapt to any new anti-
9 counterfeiting solution that is proposed. They'll
10 continue to copy overt markings. They'll continue
11 to refill vials. They'll continue to over label
12 packages, and they will continue to seek
13 coconspirators who will accept counterfeit packages
14 irrespective of the lack of appropriate packaging
15 or pedigrees.

16 However, the use of technology, when
17 combined with stricter enforcement of the
18 counterfeiting laws, as well as stricter penalties,
19 can form the basis for a comprehensive approach to
20 help deter counterfeiters. PSI members have and
21 will continue their efforts to incorporate the
22 latest in appropriate anti-counterfeiting
23 technologies in both their packages and their
24 products.

25 For example, in September of 2003, 100

1 percent of the PSI members responding to our survey
2 stated that they are actively studying the issue of
3 new technologies for packaging. In the past year
4 alone, over 59 percent had introduced new packaging
5 security devices, and over 92 percent were planning
6 on introducing new packaging security devices in
7 the next 12 months.

8 While it's good to note that the members
9 are continuing to improve package security
10 features, they also fully understand the nature and
11 the ingenuity of the counterfeiters. In a most
12 telling statistic, over 72 percent of our members
13 reported that based on their previous experience
14 and investigations with the counterfeiters,
15 individual packaging security devices did not and
16 could not have prevented the particular problem.

17 I wanted to mention briefly two best
18 business practices currently employed by our
19 members. Each one of the members has a standing
20 internal cross-disciplinary committee which is
21 comprised and brings together personnel from the
22 security department, quality assurance, quality
23 controlled units, as well as the legal department
24 and product packaging experts. Whenever there is a
25 counterfeiting incident which has occurred or is

1 suspected, as weaknesses are identified,
2 suggestions for improvement are promptly developed.

3 Secondly, each PSI member has dedicated
4 personnel responding to the problem of
5 counterfeiting. On a daily basis these experts
6 work closely with law enforcement and health care
7 authorities throughout the world by monitoring and
8 quickly investigating any complaint by a patient,
9 pharmacist, physician, that a drug may be
10 counterfeit. They monitor and return packages of
11 medicines as well as suspicious packages that are
12 on the market to ascertain possible signs of
13 tampering. They then provide critical information
14 on their products and efficiently assist law
15 enforcement whenever requested to do so.

16 The investigation and prosecution of
17 suspected drug counterfeiters, whether in the U.S.
18 or abroad, is significantly improved by the timely
19 exchange of information. Prompt information
20 exchanges allows for the efficient allocation of
21 enforcement and investigative resources, and
22 ideally, the seizure of counterfeit products before
23 they enter the supply chain.

24 From the manufacturer's perspective we
25 need to know the specifics of the counterfeiters'

1 modus operandi. With this information we can
2 strengthen those weaknesses that are exploited.

3 PSI also agrees with the FDA's call for
4 American stakeholders to work with foreign
5 stakeholders to better coordinate their anti-
6 counterfeiting efforts. In fact, every PSI member
7 has pursued anti-counterfeiting initiatives around
8 the world, as security staffs frequently interact
9 with their counterparts in a support of law
10 enforcement efforts.

11 PSI has staff permanently assigned abroad
12 and works closely with Interpol's Intellectual
13 Property Action Group. But there is a need to
14 reinvigorate the U.S. Government's effort at the
15 identification and dismantling of these criminal
16 organizations that have targeted the United States'
17 markets. Since these organizations are in fact
18 internationally based they are outside of the reach
19 oft times of the FDA. Without a presence in key
20 manufacturing countries the investigative
21 components of FDA is in a constant defensive and
22 reactive posture. To improve their effectiveness,
23 PSI believes that FDA should take immediate steps
24 to establish an investigative presence in key
25 foreign source countries. Only through the full-

1 time posting of agents from the Office of Criminal
2 Investigations to counterfeit pharmaceutical source
3 countries will the financial structure, the
4 transportation route, the distribution points of
5 these organizations be fully identified.

6 In closing, PSI believes that the FDA's
7 multi-pronged approach to addressing the criminal
8 problem of pharmaceutical counterfeiting, as
9 outlined in the task force report, is comprehensive
10 and well-reasoned, but additional improvements can
11 be made in the three areas I mentioned.

12 Firstly, substantial information sharing
13 should be put forth as one of your priority
14 efforts. A high-level commitment from all the
15 stakeholders with regularly scheduled information
16 exchange is needed to advance this initiative.
17 Secondly, we also join, as some of the other
18 speakers have mentioned, in the need for more
19 aggressive enforcement of anti-counterfeiting laws
20 and tougher criminal penalties against
21 counterfeiters and lastly, it's our belief that the
22 FDA should assign more investigative resources
23 abroad in these key foreign source countries where
24 the counterfeiting organizations exist. In these
25 regions the U.S. leadership and support is

1 immediately needed.

2 Thank you.

3 [Applause.]

4 MR. DEMPSEY: Good afternoon. My name is
5 John Dempsey and I'm Executive of Trade Relations
6 and Brand Security for Ortho Biotech. Ortho
7 Biotech is Johnson & Johnson's biotechnology
8 company.

9 Some of the folks here in the room, Tom
10 McGinnis, Jim Cohen, and a few back in the
11 audience, have seen bits and pieces of this
12 presentation, but I wanted to go over and provide
13 to you the experience that we had as a company when
14 we first discovered counterfeit drug in the
15 marketplace, and the format will be what it was
16 like, what happened and what it's like now. So
17 we'll give you some firsthand experience of what we
18 did and the security measures that we decided to
19 implement on the teamwork that occurred between
20 Ortho Biotech and the FDA and the Office of
21 Criminal Investigation, and what drove all of us,
22 J&J, Ortho Biotech, OCI and FDA, in reaching the
23 solution that we reached, and also talk a little
24 bit about what we see as short-term solutions and
25 then long-term solutions in terms of some of the

1 new and exciting technologies that are out there in
2 the marketplace that have been mentioned
3 previously.

4 On or about May 20th we received a phone
5 call that was probably one of the worst phone calls
6 I ever received in my career, and that was to let
7 us know that FDA had found some product in a
8 distribution warehouse in Grapevine, Texas that was
9 of a suspicious nature. We believe that the
10 initial investigation a Medicaid fraud
11 investigation, but that because the product--there
12 was no paperwork associated with it, this caused
13 FDA and OCI to suspect that there might be
14 something more to this case than just Medicaid
15 fraud, and in fact, the product was sent out to
16 Amgen to be analyzed. There were 1,004 vials that
17 were analyzed. And just to be clear on this, Amgen
18 manufactures PROCRT for Ortho Biotech, and we
19 market it in the United States for all non-dialysis
20 usage.

21 It was in fact confirmed that the 1,004
22 vials that had been discovered were in fact 2,000-
23 unit product that had been relabeled as 40,000-unit
24 product. We immediately had a conference call with
25 the FDA to discuss and identify our next steps, and

1 that was a very large team that consisted of FDA,
2 Amgen and J&J along with Ortho Biotech.

3 On the 30th an internal core team was
4 established. And I give this information to you
5 because if there are other pharmaceutical companies
6 out in the audience, I think this is important.
7 The process that we went through is one that you
8 might benefit from and might be able to implement
9 yourself.

10 But our internal core team was a small
11 team, and it consisted of myself, trade relations
12 and brand security, communications, our medical
13 department and our legal counsel. That core team
14 also consisted of a representative from the FDA,
15 and that was Jim Cohen. I just want to take an
16 opportunity to recognize and acknowledge the work
17 that Jim Cohen did as we worked through this very,
18 very difficult process that involved phone calls
19 late into the evening, work on the weekends, and
20 without Jim's team and the work that he did, we
21 could not have successfully addressed this issue in
22 the marketplace.

23 On the 31st we produced to FDA our
24 timeline, and communicated to them what the month
25 of June would look like.

1 Now, just to give you some of the things
2 that we were up against at this point in time,
3 number one, anything that we did we would have to
4 do in conjunction with Amgen. We were not the
5 manufacturer of the product, so in order to do
6 anything and implement any security features in the
7 packaging we would have to present a case to Amgen
8 and then present a case to the FDA that would allow
9 us to pull the product out of our current inventory
10 and redress that product with the anti-
11 counterfeiting technology features built into it.

12 Keep in mind that we also were not
13 approved at that point in time in New Jersey, none
14 of our sites were approved to redress product, and
15 because of speculative buying that occurred in the
16 previous year, we had about \$1.2 billion worth of
17 product in inventory.

18 J&J had also decided that none of that
19 product would go out into the marketplace until it
20 had some type of anti-counterfeiting technology
21 built into the packaging.

22 So there was a number of issues that we
23 had to deal with, and we decided that, very simply,
24 that we would be guided by our credo, and FDA,
25 ourselves, we all knew what was of utmost

1 importance was customer safety and satisfaction for
2 the patients that we service.

3 So it became very easy for us, after we
4 identified that this product was out in the market,
5 the process that we had to follow.

6 So we did, from June 1st until June 22nd,
7 we had continuous proactive communications. We
8 sent out over 400,000 different letters, two
9 separate "dear doctor" to the health care providers
10 letting them know what we had discovered. We had
11 discovered two separate lots of counterfeit product
12 that had been labeled as PROCIT, both of which had
13 been 2,000 unit relabeled as 40,000 unit. Our
14 redress was a cross-functional team that consisted
15 of packaging, quality, manufacturing, engineering,
16 operations, shipping, legal and trade relations.
17 And I think that hats off to this team and what
18 they accomplished.

19 In order to build a case, working with the
20 counsel of FDA to allow us to go in to create a
21 manufacturing line to take product out of
22 inventory, to unpackage it, and then to redress it,
23 and to be able to present that case to FDA and have
24 FDA approve it, obviously we couldn't have done it
25 without their great cooperation, insight and

1 counsel. So, hats off to the team.

2 We decided during the process that our
3 platform, our basic platform in the initial
4 development of our brand security program would be
5 security ink, and we were going to go with carton
6 closure seals.

7 From the 1st until the 22nd we had daily
8 meetings, conference calls with the FDA to let them
9 know how the plan was progressing, and to let them
10 know when we thought the redress would be
11 completed.

12 I have to chuckle when I look at that,
13 it's one bullet point, because trust me, it wasn't
14 one bullet point from June 1st to June 22nd.

15 On the 22nd the redress activities
16 actually began on the first lot of our 40,000 unit
17 product, and on July 1st that first lot was shipped
18 out of our Franklin Distribution Center with the
19 carton closure seals and the security features
20 built into it.

21 On August 29th the complete \$1.2 billion
22 worth of product had been completely redressed.

23 So when we look at different types of
24 brand security plans, I think from our standpoint,
25 obviously people have already spoken about overt

1 features, covert features, we also added some
2 features that are both covert and then become overt
3 in some of the adhesive seals that we have on our
4 product.

5 This is what a carton closure seal looks
6 like. We have a color-shifting ink similar to what
7 was used with the U.S. Treasury Department on the
8 \$20 bills. We go from a green to a gray. We also
9 have covert features that are built into the
10 security inks, which I won't go into detail about,
11 but I can tell you that our district managers can
12 go to an end user's office, to a hospital pharmacy,
13 to a wholesaler, or to a hospital and authenticate
14 product at the end user's place of business. And
15 that's the covert feature.

16 I'll also say that there's been some
17 conversation about how sophisticated the
18 counterfeiters are, and they are very
19 sophisticated. One of the covert features that
20 becomes overt on our carton closure seal is that
21 when you remove the seal initially we had a pattern
22 on the adhesive where it would say "Void," and it
23 would say "OBPLP" when you removed the seal, and we
24 felt very comfortable that that was another feature
25 that we built in that would be difficult to

1 replicate. Well, nine months we had put the seals
2 on the cartons, fortunately, through an informant,
3 FDA and OCI conducted a sting operation, and this
4 was the product that we found. And the
5 counterfeiters had reproduced a very
6 unsophisticated version of the carton closure seal.
7 They didn't have the adhesive indicator on the
8 back, but they did attempt to reproduce the seal.
9 So that addresses one of the issues.

10 When you talk about a security program, it
11 has to be fluid, it can't be static. It has to
12 have many features that are both overt and covert,
13 and certainly complacency is the greatest threat
14 that you'll face. For us, we had the carton
15 closure seals, we had the security ink, we had the
16 covert features that were built into those carton
17 closure seals. We then took all of our caps and
18 foil wraps and we color-coded them to the specific
19 strength of our product. On our foil wraps we
20 built in covert features that identify the strength
21 and the name of the product.

22 And this is an example of the different
23 colors in the caps and the foil wraps that are used
24 on our vials. For those that are unfamiliar with
25 PROCRIIT the vial is about this big, so about an

1 inch high.

2 In addition we now have covert features,
3 actually overt and covert features that are built
4 into the individual unit vial so that they also can
5 be authenticated at the end user level by our
6 district managers.

7 Key learnings. Complacency will kill you.
8 You've got to have a comprehensive security program
9 and you've got to have many components and many
10 layers. Neither the program nor the threat is
11 static. If you sit still, you can be guaranteed
12 that counterfeiters are not sitting still, and that
13 they're looking for a way that they can counterfeit
14 your product and make money.

15 Communications have to be transparent from
16 the very beginning. I urge anyone who's in the
17 pharmaceutical industry that if you discover this,
18 be as transparent as you can. Let everybody know.
19 Call the FDA, enlist them as your partner. Set up
20 your websites. Link your websites to the FDA's
21 website. Over communicate as much as you can. We
22 had eight different mailings, 200,000 mailings for
23 each time that we sent out. We had, I believe, the
24 first mailing Jim probably had six or seven pages
25 and it included color photos that showed the

1 difference between authentic versus counterfeit
2 product. On our website we have the authentic
3 versus counterfeit product pictures also, and that
4 can be seen at www.procrit.com.

5 The effectiveness of any security program
6 rests on your weakest link. You constantly have to
7 do your threat and vulnerability assessments.
8 Meticulous management of the supply chain is
9 paramount.

10 And I have to say two things that we did.
11 In three of the eight communications that we sent
12 out, we told our direct distributors--those are
13 those customers that we sell our product directly
14 to--that if they're caught with product purchased
15 from a source other than Ortho Biotech, they would
16 lose their direct account status with us. And in
17 an industry where 2 percent, 30 days is very
18 important to generate revenues, that had some
19 impact.

20 A second piece of that communication was
21 we solicited and asked all of our customers that
22 utilize PROCRT to let us know if they ever receive
23 mailings or faxes from a source other than Ortho
24 Biotech to purchase PROCRT, and I'm happy to say
25 that on a number of occasions we did receive phone

1 calls to that effect. We were able to pass those
2 on to FDA and OCI and successful investigations
3 occurred. I'm unhappy to say that the frequency of
4 those phone calls was very, very small.

5 So I think there's an issue there that we
6 all need to take a look at in terms of
7 responsibility and accountability. The reason that
8 counterfeit drug gets into the marketplace is
9 because someone's willing to buy it, and if flyers
10 are out there suggesting that product can be
11 purchased at a price that's below market price,
12 then there's probably something wrong with the
13 product.

14 The cost and benefits are not always
15 quantifiable. It's difficult to put a dollar and
16 cents figure on them, but at the end of the day,
17 what's most important is patient safety, and cost
18 is not an issue when that's taken into
19 consideration.

20 And this is our icon on our website.
21 Thanks very much.

22 [Applause.]

23 MR. THERIAULT: Good afternoon. My name
24 is John Theriault.

25 Since 1996 when I joined Pfizer as Vice

1 President of Global Security a significant portion
2 of my time has been devoted to developing and
3 implementing a robust anti-counterfeiting program.
4 The basis for that program lies not only in
5 Pfizer's desire to maintain public confidence in
6 the Pfizer name and the integrity of our products,
7 but also to safeguard public health and safety. So
8 I would like to thank the FDA for this opportunity
9 to express Pfizer's views on the FDA's anti-
10 counterfeiting initiative, and the importance of
11 that initiative in ensuring the integrity of the
12 U.S. pharmaceutical supply.

13 My comments today are going to focus on
14 two related areas, how the FDA and the
15 pharmaceutical industry can work together most
16 effectively to protect that supply, and our recent
17 experience with counterfeit Lipitor as a case study
18 in the effective management of a threat to that
19 supply.

20 Lipitor is the largest-selling
21 pharmaceutical product in the world. As many of
22 you may know, a substantial amount of counterfeit
23 Lipitor was recently discovered in the U.S.
24 distribution system. Investigation into the
25 sourcing and distribution of the counterfeit

1 Lipitor disclosed a large-scale international
2 operation involving as many as 16 companies in nine
3 countries. It was in fact a very sophisticated
4 well-organized international criminal enterprise.

5 The counterfeits were apparently
6 manufactured in Brazil or Argentina. They were
7 introduced into the U.S. by repackagers who
8 commingled the product with authentic product and
9 distributed it to pharmacies throughout the United
10 States via the secondary wholesale network. At the
11 end of the day over 18 million tablets had to be
12 recalled.

13 The original Lipitor case came to our
14 attention as a result of consumer complaints that
15 were received and investigated by Pfizer. The
16 number of complaints, fewer than 20, represent only
17 a tiny fraction of those who take Lipitor on a
18 daily basis. And an examination of this
19 photograph, if you can see it, may explain why
20 there were so few complaints. Visually the
21 counterfeit tablets on the left are virtually
22 impossible for a consumer to differentiate from the
23 authentic tablets on the right.

24 As this case developed Pfizer and the FDA
25 were in almost daily contact. While the primary

1 contacts were between Pfizer's Global Security Unit
2 and the FDA's Office of Criminal Investigations,
3 there was also frequent contact between Pfizer and
4 FDA laboratories. As Pfizer received sample from
5 those consumers who had filed complaints, the
6 samples were tested and found to be counterfeit.
7 We not only shared with the FDA our test results,
8 but also provided them with samples necessary for
9 them to conduct their own analyses. Our security
10 unit also coordinated the verification of lot
11 numbers, expiration dates and distribution of the
12 lot numbers that were called into question.

13 For its part the FDA worked closely with
14 Pfizer to ensure that once a recall was issued, the
15 public would be promptly informed of the nature and
16 extent of the recall. The FDA issued talk papers
17 that not only informed the public of the recalls
18 but also reassured those taking Lipitor that it was
19 only the tablets repackaged by a certain company
20 that were subject to recall.

21 Also when it became clear that a recall
22 was imminent the FDA provided Pfizer with notice,
23 thereby permitting us to put in place our own plan
24 of action to inform and reassure our customers.
25 The steps that we took included the issuance of a

1 press release, posting and updating information on
2 our Lipitor website, preparing a detailed Q&A to
3 provide accurate and consistent information to the
4 media, health care professionals and patients, and
5 an informational fax that was sent to pharmacists
6 throughout the country.

7 To ensure the success of the FDA's anti-
8 counterfeiting initiative we feel that attention
9 must be given to three particular areas: government
10 and industry cooperation in preventing the
11 introduction of counterfeits into the U.S.
12 pharmaceutical supply; prompt and coordinated
13 reaction to counterfeits that are discovered; and
14 strong remedies against those responsible for
15 counterfeit activities.

16 Regarding prevention. We agree that
17 packaging should be developed to permit
18 counterfeits to be more readily identified. To
19 accomplish this goal the FDA should provide
20 flexible guidelines for implementation by the
21 industry. But technology alone is not the answer.
22 It should be viewed as one important part of a
23 multi-layered solution.

24 Those involved in the distribution
25 channels for pharmaceuticals must also be made

1 active participants in ensuring the integrity of
2 the supply. They must improve business practices
3 to authenticate and track products, and stricter
4 penalties must be imposed upon those willing to
5 jeopardize public health and safety by engaging in
6 reckless business practices that facilitate
7 counterfeiting.

8 To ensure the success of these measures
9 there must be a greater commitment of resources,
10 not only by the FDA but by state regulators as
11 well. Current regulations must be strictly
12 enforced. Wholesalers and repackagers should be
13 regularly inspected to determine their compliance
14 with existing laws and regulations. The industry
15 must also be alert for signs of counterfeiting
16 through enhanced product surveillance and close
17 monitoring of distribution channels.

18 I can't over-emphasize the importance of
19 open and frequent communications between the FDA
20 and the industry. In the event of a serious
21 counterfeiting threat these communications can be
22 facilitated by designating points of contact and
23 establishing briefing schedules. In order to
24 facilitate its investigations the FDA requires
25 information concerning our products, our packaging

1 and our anti-counterfeiting technologies. Given
2 the proprietary nature of that information,
3 however, it's necessary to have in place a system
4 to ensure the confidentiality of that information.

5 We also believe that a more efficient
6 method to inform and educate the public must be
7 developed and implemented. Key components of any
8 system should include a coordinated FDA industry
9 process for disseminating information concerning
10 recalls. Examples of such solutions could include
11 the use of Internet websites and the mass faxing of
12 information to pharmacists as proved so successful
13 in Pfizer's management of the Lipitor recall.

14 Finally, Pfizer remains committed to
15 aggressively addressing the counterfeiting problem.
16 We will maintain our proactive surveillance of the
17 market through consumer relationships and global
18 security to identify and investigate possible
19 sources of counterfeit Pfizer products. We will
20 seek to forge a strong partnership with the FDA and
21 other enforcement agencies. A training program
22 recently held for a joint task force from the FDA
23 OCI, the FBI and local police is a first step in
24 forging a strong partnership with the FDA to ensure
25 that the pharmaceuticals dispensed to U.S.

1 residents are authentic, safe and efficacious.

2 Again, thank you for the opportunity to
3 comment on this very important FDA initiative.

4 Thank you.

5 [Applause.]

6 MR. TAYLOR: Any questions for the task
7 force?

8 MR. McCONAGHA: I've got a very quick
9 question, if I may, for Mr. Goldhammer.

10 MR. TAYLOR: Bill, just before you go on,
11 just in case there are people who--

12 MR. McCONAGHA: I'll identify myself.
13 Bill McConagha with FDA's Office of Chief Counsel.

14 Mr. Goldhammer, I have a quick question
15 for you. Does your organizational membership have
16 a view with respect to unit-of-use packaging?

17 MR. GOLDHAMMER: We don't have a firm view
18 yet. It has been discussed and there are some
19 potential drawbacks to it. Mention was made
20 earlier about the use of blister packs as one
21 approach. There are a couple of key points to be
22 noted about that. (A), it is widely used in
23 Europe, and there also large numbers of blister
24 packs have been counterfeited in Europe, so it's
25 not a panacea in that respect.

1 Also, in the United States we have the
2 Poison Prevention Act regulations that have to be
3 complied with, so every blister pack has to be
4 evaluated for each drug. You can't just say,
5 "We've got a blister pack and we're going to use
6 this for our whole line." It's got to be evaluated
7 on a drug-by-drug basis.

8 And the final point is, for drugs that
9 have multiple dosing regimens, you really run into
10 a problem. Take the example of antibiotics where
11 you have a 7, 10, 14, 21-day dosing regiment. How
12 do you blister pack those? It's going to be
13 complicated and pharmacists may end up having to
14 carry multiple inventories.

15 MR. McCONAGHA: Thank you.

16 MR. TAYLOR: Any other questions?

17 MS. BERNSTEIN: Yes. Ilisa Bernstein from
18 the Office of Policy.

19 I have a question for Mr. Kubic. In the
20 survey that you did, did you by any chance survey
21 and ask people what they think about in terms of
22 when they're going to institute anti-counterfeiting
23 technologies, what kind of factors they consider?
24 Because if you recall, in the report we had a
25 question about that, so I was wondering if you can

1 comment on that at all?

2 MR. KUBIC: The survey that was conducted
3 by PSI did not go into the detail in terms of what
4 types, and we did ask within the next 12 months who
5 was interested or who had a work in progress that
6 looked as if in 12 months they would have something
7 new online, and that was the basis for that number.

8 MS. BERNSTEIN: And in fact, if anyone
9 else wants to comment on that, that would be--

10 MR. DEMPSEY: John Dempsey. In terms of
11 other companies, I think the thought is, after
12 hearing what we had to present and what my fellow
13 peer at Pfizer had to present, if you're a
14 pharmaceutical company and you're not looking at
15 implementing some type of brand security program
16 now, you might want to reconsider that.

17 MR. TAYLOR: Yes, Terry?

18 MR. VERMILLON: Yes. I'm Terry Vermillon.
19 I'm Director of the Office of Criminal
20 Investigations.

21 Mr. Dempsey, I was just wondering, in the
22 injectable market, I wonder if the industry has
23 started looking at any kind of technology that
24 would preclude the reuse of vials, so it would be a
25 single use vial, where after it was used it could n

1 longer be reused?

2 MR. DEMPSEY: I think from our perspective
3 there's a number of different technologies that
4 we're looking at both in vials. We also have
5 examples of products that are out there that are
6 delivered in a syringe. From our perspective I
7 wouldn't want to comment on what we're looking at
8 or what we're thinking about doing, but certainly
9 the technology is evolving and the technology
10 hopefully will be there.

11 When we look at what's out in the future
12 and I didn't comment about this in my presentation,
13 but many folks here today did talk about radio
14 frequency identification tags, and I think from the
15 standpoint of the future and what the future holds
16 I think there's two things that RFID provides to us
17 as an industry and to the customers that we serve.
18 One is the anti-counterfeiting technology that we
19 can afford. It's very difficult to duplicate. We
20 can authenticate product at the end user level.
21 But then the secondary piece that that provides to
22 the industry on the supply chain side are supply
23 chain efficiencies in terms of inventory
24 management, reverse logistics, data collection.

25 Whether or not FDA gets to the point where

1 they mandate a program going down that path, the
2 only thing that I would say is we had barcodes out
3 now for 20 years--40 years. And when have they
4 become fully implemented in the pharmaceutical
5 industry? So I think there's an opportunity for
6 all of us to come together and look at this new
7 evolving technology and make a decision that this
8 is that this is the direction that we want to go,
9 and certainly if the masses come to the table, then
10 the cost of the technology will be insignificant.

11 MR. TAYLOR: Any other questions?

12 [No response.]

13 MR. TAYLOR: Okay. I want to thank the
14 fourth panel very much.

15 [Applause.]

16 MR. TAYLOR: And I would like to ask the
17 fifth panel to please come down to the table.

18 The first presentation will be by John
19 Roberts and John Terwilliger from Uniform Council
20 Code.

21 MR. TERWILLIGER: Good afternoon. My name
22 is John Terwilliger. I'm the Vice President of
23 Market Development at the Uniform Code Council. I
24 would like to thank the FDA for this opportunity to
25 talk about drug counterfeiting.

1 Counterfeit drugs are harmful to patients
2 and costly to the health care industry. It is an
3 issue that the Uniform Code Council or the UCC
4 takes very seriously.

5 I would like to provide you with some
6 information about the UCC and highlight some of the
7 global tools we have available that can help fight
8 counterfeiting today and in the future.

9 For 30 years the Uniform Code Council is a
10 recognized world leader in standardizing bar coding
11 in electronic commerce that enables unique and
12 accurate identification to the global supply chain.
13 We are a neutral, not-for-profit global standards
14 organization. Our mission is focused on working
15 with users to develop open multi-industry,
16 technology neutral standards that improve the way
17 business is conducted around the world.

18 Our solutions have brought tremendous
19 benefits to businesses and consumers alike. Our
20 organization is best known for the development of
21 the ubiquitous universal product code, or UPC,
22 which we commercially introduced in 1974. The UPC
23 has had a dramatic impact on business and has been
24 recognized as one of the most important innovations
25 in the history of commerce.

1 As use of the UPC grew, Uniform Code
2 Council expanded this technology to address other
3 business processes. Today the UCC provides a
4 complete suite of physical identification
5 electronic commerce standards that can be used in
6 any industry to identify items, including all
7 levels of packaging, logistics units such as
8 pallets and other shipping containers, assets and
9 also locations.

10 While my presentation will be focused on
11 UCC tools that are currently available to address
12 any counterfeiting, I want to note that UCC has
13 launched a new entity named EPC Global. This new
14 organization will lead the worldwide
15 commercialization of the breakthrough electronic
16 product code or EPC that has been researched and
17 developed at the MIT Auto-ID Center. EPC
18 technology will be complementary to our existing
19 standards and provide greater ability to combat
20 counterfeit drugs.

21 While the UPC was originally developed for
22 the U.S. grocery industry, its dramatic success
23 quickly generated interest from other industries
24 both here and around the world. The technology
25 behind the UPC became the basis of the global

1 EAN/UCC system, a system of open, multi-industry
2 supply chain standards. The following information
3 demonstrates the global strength of the EAN/UCC
4 system.

5 Our global standards are used by over 1
6 million members worldwide, and these would be
7 primarily companies, distributors, et cetera, and
8 other organizations. They are used by 23 major
9 industries including health care to conduct
10 business efficiently in 141 nations. These
11 standards are at work in the hospital setting,
12 pharmacies, health care manufacturers, distributors
13 and stores for over-the-counter health care
14 products today.

15 Our system is well established, provides a
16 global user base and offers a broad range of
17 integrated solutions to facilitate accurate, unique
18 item identification. These are the same reasons
19 the FDA, in March 2003, incorporated the standards
20 of the EAN/UCC system into its proposed standard to
21 reduce medication errors and save patient lives.

22 As I mentioned, the EAN/UCC system
23 provides tools that can combat counterfeiting of
24 drugs. For logistics we offer the SSCC or the
25 serial shipping container code that uniquely

1 identifies logistics for like pallets, containers
2 and mixed cases as they move from point to point in
3 the global supply chain. For applications that
4 require identification of a case, intermediate pack
5 or a unit-of-use, companies can utilize the global
6 trade item number or GTIN with a serial number.
7 GTIN plus serial number ensures global unique
8 identification of that specific item anywhere in
9 the supply chain. These tools are already in use
10 and available today.

11 Implementation can be expedited quickly
12 leveraging existing systems and infrastructure.
13 Most importantly, the industry can begin addressing
14 and combating counterfeit drugs now.

15 The first layer to combat counterfeit drugs
16 for the health care industry is to continue to
17 identify items with the global trade item number
18 which carries the national drug code. The global
19 trade item number is a unique identifier for code
20 items, as I mentioned before, used in 141 markets
21 around the world. GTIN is the de facto
22 identification standard for pharmaceutical items
23 worldwide.

24 Most barcodes that are used in the
25 marketplace only carry the GTIN. However, there is

1 often a need to provide other information specific
2 to a particular item or set of items. Application
3 identifiers allow companies to include secondary
4 information about their product. Application
5 identifiers are another important tool in the
6 EAN/UCC system to combat counterfeiting. Over 100
7 different application identifiers are available to
8 provide additional information such as lot numbers,
9 serial numbers and expiration dates.

10 The GTIN combined with a serial number and
11 a lot number can identify all packages from
12 individual units-of-use to cases with precision.
13 The GTIN, serial number and/or lot number can be
14 bar coded now with available commercial equipment.

15 The UCC has worked with the health care
16 industry to develop small barcode size for end of
17 use packages, and this is an example on the screen.
18 The result of this collaboration is reduced space
19 symbology or RSS, a globally recognized standard.
20 RSS symbols can be printed, scanned and verified,
21 using readily available commercial equipment. RSS
22 is currently implemented by the pharmaceutical
23 industry's largest and best known companies. It is
24 being used today.

25 The use of reduced space symbology on

1 small units-of-use items is having a positive and
2 significant impact on global health care, enables
3 accurate and complete identification of
4 pharmaceutical products right down to the lowest
5 unit-of-use to reduce medication errors. By
6 improving product identification, product safety
7 and traceability will be enhanced and inventories
8 will be better managed.

9 I would like to discuss how our standards
10 ensure the accurate movement of shipments between
11 trading partners, such as between the manufacturer
12 and the distributor and between the distributor and
13 the health care institution. The second layer to
14 combat counterfeiting is the SSCC, as I mentioned
15 before. The SSCC is an individual license plate
16 for logistics units and it is the global unique
17 identifier of logistics, and it can be used
18 throughout the entire shipping process between all
19 points.

20 When a logistics unit is broken up, the
21 SSCC is discarded. If a company receives a
22 shipment of products that is without a valid and
23 accurate SSCCs, the questionable shipment can be
24 immediately quarantined and investigated.

25 This slide displays a label on a logistics

1 unit. The SSCC is the large barcode at the bottom.
2 The SSCC is in wide commercial use.

3 Let me give two well-known retain
4 examples. Federated Department Stores, which
5 includes Macy's and Bloomingdale's, has
6 successfully used the SSCC since 1994. The SSCC
7 moves merchandise into stores more quickly and cost
8 efficiently and reduces shrinkage. Federated
9 receives and routes 50 million cartons annually.
10 The use of the SSCC in tandem with EDI, 856 advance
11 ship notice, electronic data interchange, has
12 increased efficiency, reduced cost and increased
13 accuracy while providing excellent track-and-trace
14 capabilities.

15 As mentioned earlier, there are a number
16 of retail products that are widely counterfeited,
17 mainly that would include designer clothing,
18 luggage, leather goods, and also fragrances, so it
19 is a major issue in that industry also.

20 Sears is a second example of the
21 commercial use of the SSCC. Every year 35 million
22 packages from over 1,000 vendors are moved through
23 a 870 plus store system, or approximately 5,000
24 cartons per hour in seven distribution centers here
25 in North America. The SSCC has brought efficiency

1 and effectiveness in moving this vast quantity of
2 diverse products.

3 In conclusion, Uniform Code Council offers
4 several recommendations to this panel. The health
5 care industry should fully adopt and implement the
6 global standards of the EAN/UCC system. Our
7 solutions will help reduce medication errors in
8 their equally powerful enabling unique
9 identification that can combat counterfeiting.
10 Full adoption of these standards will build upon
11 the FDA's proposed rule to reduce medication errors
12 and save lives by incorporating these standards.

13 The health care industry needs to build an
14 integrated anti-counterfeiting infrastructure. We
15 have the barcode solutions and they are available
16 today. The industry will need to build databases
17 and communication links that support the expanded
18 efforts of physically identifying products in those
19 logistics units.

20 The UCC is the organization behind the
21 commercializing UPC technologies as I mentioned
22 before. EAN/UCC data structures will be mapped
23 into the UPC.

24 Ms. Dicki Lulay, the next speaker and the
25 President of EPCglobal U.S., will provide